

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicants: Jasper Rine and Matthew Ashby Attorney Docket No.: UOCB118456

Title: SYSTEMS FOR GENERATING AND ANALYZING
STIMULUS-RESPONSE OUTPUT SIGNAL MATRICES

PRELIMINARY AMENDMENT

Seattle, Washington 98101

TO THE COMMISSIONER FOR PATENTS:

In the Specification:

Please delete lines 6-8 of the application.

Please revise the section beginning on page 1, before line 10, to add a new section with the heading as follows:

CROSS-REFERENCES TO RELATED APPLICATIONS

The present application is a continuation of pending U.S. Patent Application No. 09/294,453, filed 4/19/99; which is a continuation of U.S. Patent Application No. 08/986,650, filed 12/8/97, now Patent No. 6,326,140, which is a continuation of U.S. Patent Application No. 08/512,753, filed 8/9/95, now Patent No. 5,777,888, priority from the filing dates of which is hereby claimed under 35 U.S.C. § 120.

In the Claims:

Please cancel Claims 1-37 and add new Claims 38-85 as follows:

38 (New) A method for analyzing the effects of subjecting a living thing to a stimulus comprising:

(a) detecting physical signals from a plurality of units ordered in a probe matrix by contacting the probe matrix with gene transcripts or cDNA derived from said living thing subjected to said stimulus, wherein each unit of the probe matrix confines a probe comprising a different pre-determined sequence of nucleotides, and wherein said sequence is hybridizable with an identified gene of said living thing, or with a transcript of the gene, or with cDNA derived from the gene,

LAW OFFICES OF
CHRISTENSEN O'CONNOR JOHNSON KINDNESSSM
1420 Fifth Avenue
Suite 2800
Seattle, Washington 98101
206.682.8100